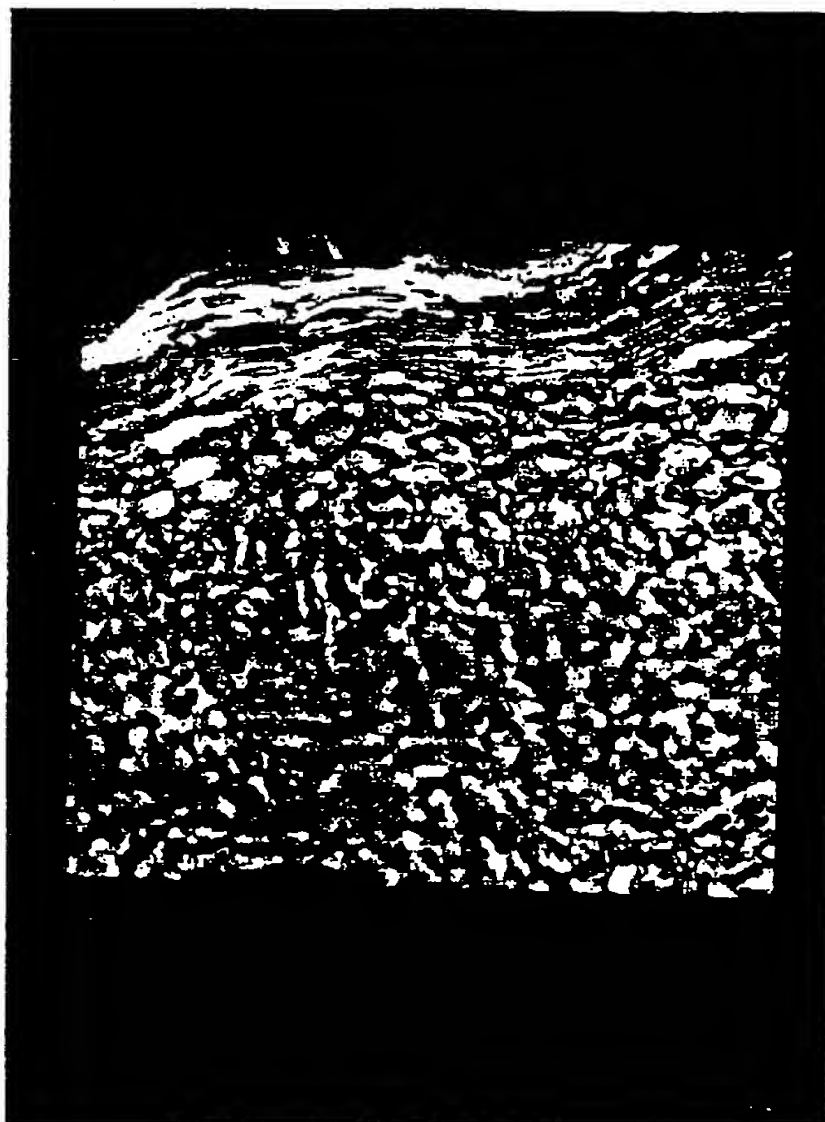


Analysis by confocal microscopy using the antibody 8D7
of the mitochondrial localization of the PBR receptor
on keratinocytes A431 (green coloration).

FIGURE 1

09831720-051401



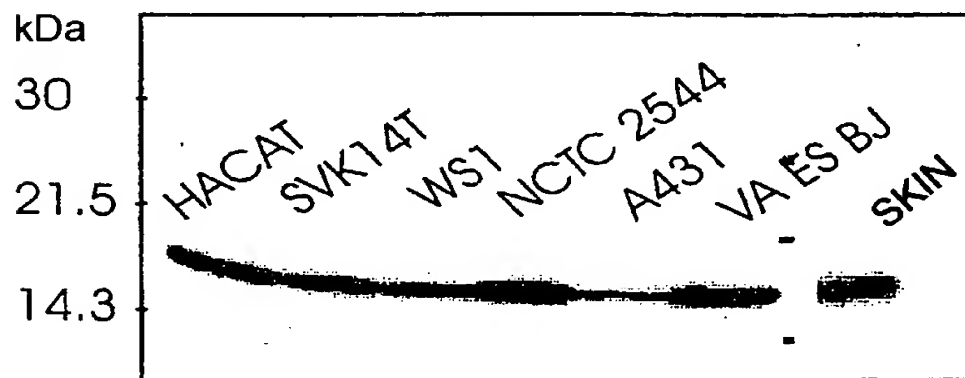
The immunohistological analysis performed on a section of normal human epidermis reveals an expression of PBR which increases from the *stratum basale* to the *stratum corneum* (red coloration).

FIGURE 2

09831720-051401

Expression of PBR on keratinocyte lines
and on normal human skin lines:

Western blot analysis



[kDa] [SKIN]

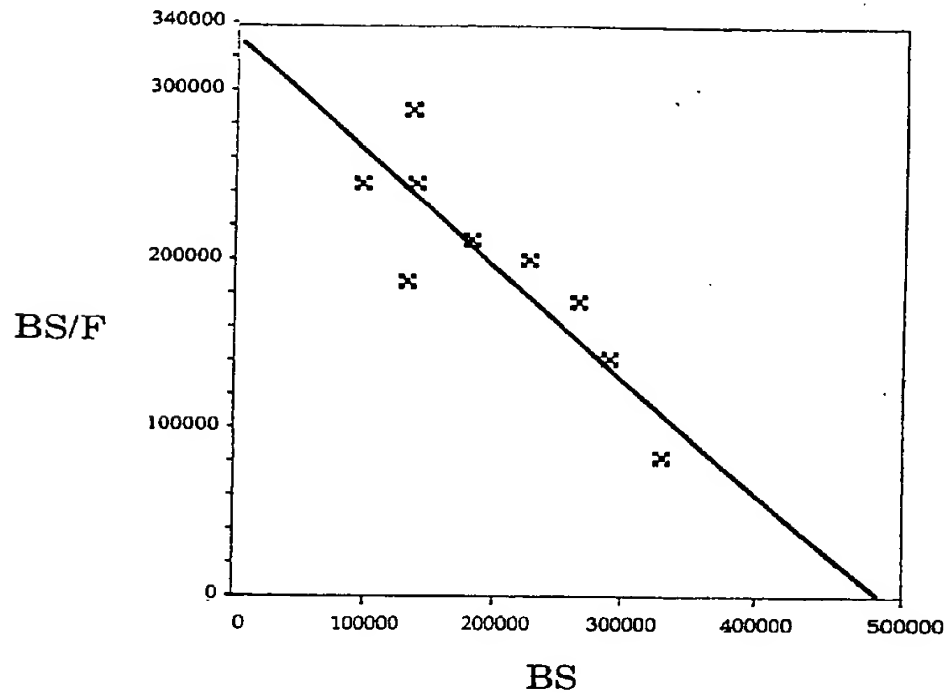
8D7 antibody labeling (1 μ g/ml final)

The deposits are normalized by assaying the total
proteins of the lysate:
deposits for each line 30 μ g

FIGURE 3

09831720-051401

Scatchard study
on keratinocytes A431



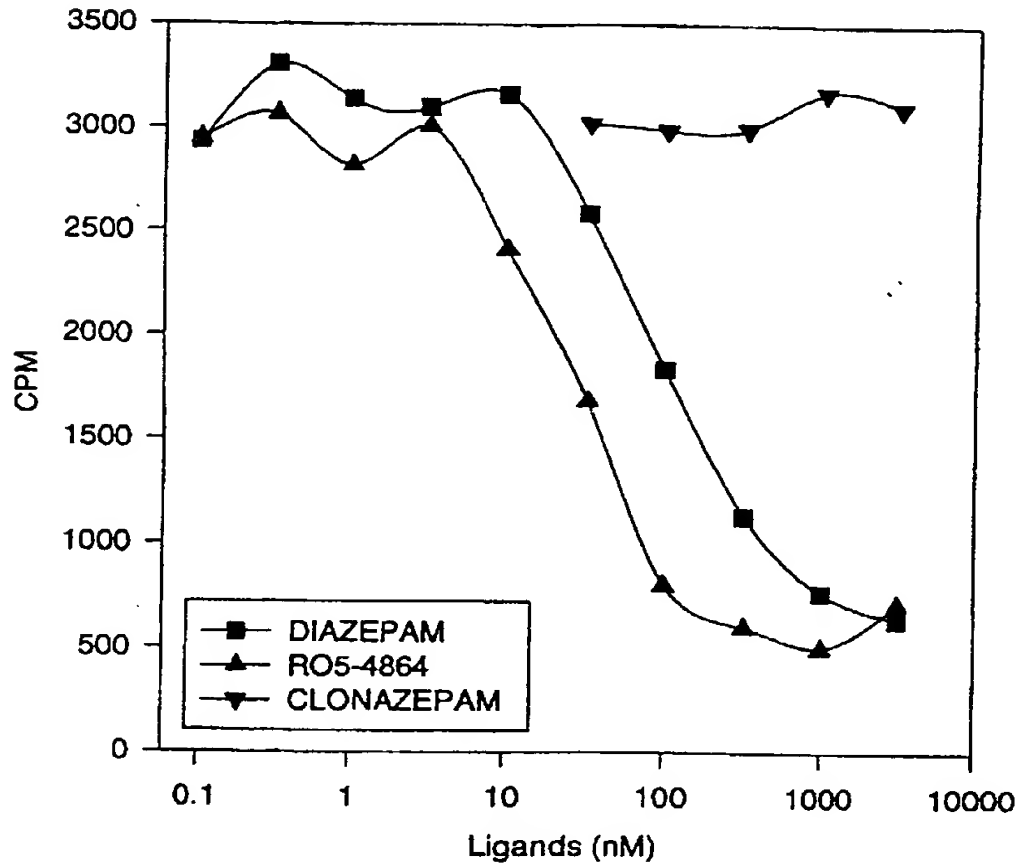
B max = 472 000 \pm 68 000 receptors/cell

KD = 1.5 \pm 0.3 mM

FIGURE 4

09831720-051401

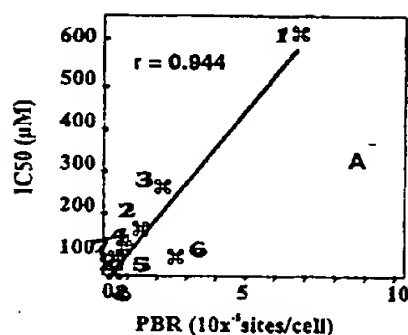
Pharmacological profile of ligands for PBR
on keratinocytes A431



Curve of displacement of the reference ligand
[3H]-PK11195 by Ro 5-4864 (peripheral ligand),
clonazepam (central ligand) and
diazepam (mixed ligand)

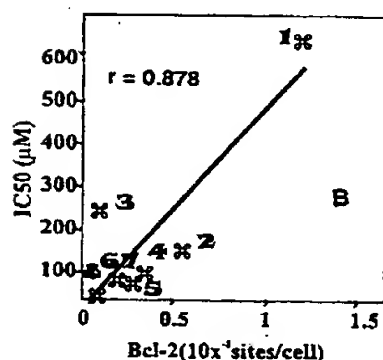
FIGURE 5

Involvement of PBR in the protection of hematopoietic cells against damage caused by oxygenated radicals

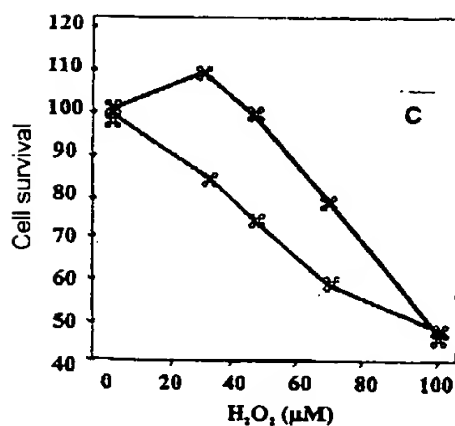


Correlation between the level of expression PBR [A] and of Bcl-2 [B] and of resistance to the toxicity of H₂O₂

1 = THP₁ 2 = U937 3 = K562
IM9 5 = CEM 6 = NALM-6
7 = Jurkat 8 = RAJI

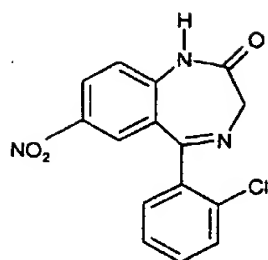


The H₂O₂ concentrations which induce 50% toxicity after incubation for 24 h [IC₅₀] are expressed as a function of the number of PBR or Bcl-2 sites.

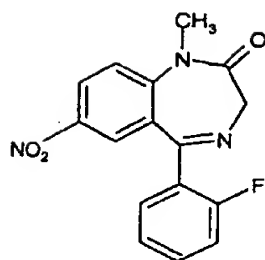


Viability of wild-type Jurkat cells % and of cells transfected with PBR % with respect to H₂O₂ toxicity after incubation for 24 h

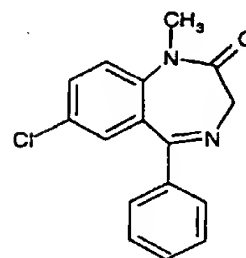
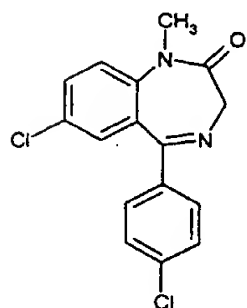
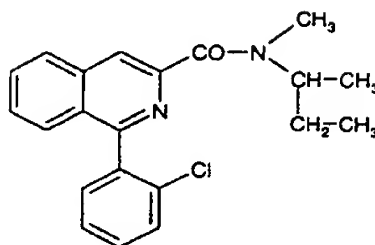
FIGURE 6



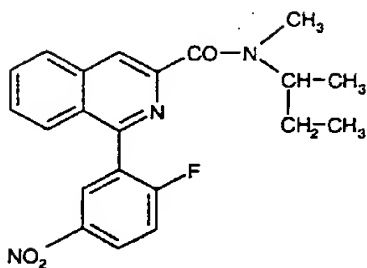
CLONAZEPAM



FLUNITRAZEPAM

DIAZEPAM
Ro 5-2807CHLORODIAZEPAM
Ro 5-4864

PK 11195



PK 14105

Main ligands for the central and peripheral
benzodiazepine receptors

FIGURE 7